

	Application No.	Applicant(s)
Notice of Allowability	10/695,306	PUNSALAN ET AL.
	Examiner	Art Unit
	PHUC T. DANG	2818
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to October 28, 2003.		
2. The allowed claim(s) is/are <u>1-49</u> .		
3. The drawings filed on 28 October 2003 are accepted by the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents hat</li> <li>2. Certified copies of the priority documents hat</li> <li>3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ve been received. ve been received in Applicatio	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") m  (a) including changes required by the Notice of Draftsper  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examine Paper No./Mail Date  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	erson's Patent Drawing Review  er's Amendment / Comment or  1.84(c)) should be written on th	in the Office action of ne drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 102803)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposition of Biological Material</li> </ul>	3) 6. ☐ Interview St Paper No./ B/08), 7. ☐ Examiner's	formal Patent Application (PTO-152)  Immary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance
PRIMARY EXAMINER Sungphur		

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**DETAILED ACTION** 

1. Claims 1-49 are allowed.

2. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches the step of <u>depositing a liquid precursor solution onto a substrate</u>, forming a liquid film, the liquid precursor solution having at least one soluble metal salt dissolved into a photoresist; patterning the liquid film; and heating the patterned liquid film, thereby producing the patterned ceramic film in combination with the other steps found in each of the independent method claims 1, 42 and 43 and with the other structure of the independent apparatus claim 23.

None of the prior art teaches a structure of a ceramic film comprising means for converting the precursor solution into the ceramic film having the pattern therein, wherein the ceramic film is adapted for use as at least one of ion-conducting ceramics, electrodes, hard ceramic coatings, transparent conducting oxides, transparent semiconductor oxides, ferroelectric oxides, and dielectric oxides in combination with the other structure of the independent apparatus claim 45.

None of the prior art teaches the step of <u>firing the patterned liquid film at a temperature</u> sufficient to substantially drive off <u>organic materials</u>, thereby rendering the patterned <u>ceramic film</u>; wherein the patterned <u>ceramic film</u> is adapted for use as at least one of <u>ion-conducting ceramics</u>, electrodes, hard <u>ceramic coatings</u>, transparent <u>conducting oxides</u>, transparent <u>semiconductor oxides</u>, ferroelectric <u>oxides</u>, and <u>dielectric oxides</u> in combination with the other steps found in the independent method claim 46.

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Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submission should be clearly labeled "Comments on Statement of Reasons for

Allowance".

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner

can normally be reached on 8:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

David C. Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization

where this application or proceeding is assigned are 703-872-9306 for regular communications

and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding 6.

should be directed to the receptionist whose telephone number is 703-308-0956.

Langshow

Phuc T. Dang

Primary Examiner

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